

SYSTEM 4

6-LEN



DUB  
JEFF #37

ON BKGD TERMINAL (WYSE)

- 1) FSYS
- 2) HI

ON CONSOLE TERMINAL (FG)

- 3) SYSTEM4



1 ANALOG MID Ø



8x1  
RIBBON  
RPV → MVP

TO CLOSED SIDE OF HEADER  
CLOSED PIN 1 Δ



**CROSSPOINT**



**PRODUCTIONS**

940 Wadsworth Blvd. - Suite 102  
Lakewood, Colorado 80215

**Glenn Hill**  
**Engineer**

**Bus. - (303) 232-9572**

3-1-88

## REMOTE CONTROL CONNECTIONS

To interface to SYSTEM 4 for remote playback, connections must be made via the REMOTE connector on the rear of the CONTROL PANEL ELECTRONICS nest. All connections should be made using the supplied DB25P connector. Refer to TABLE 1 for pin outs of the REMOTE connector. Note that there is two different protocols for the remote mode. The connections for the remote connector are different for the two protocols. Protocol number one uses FORWARD, START, STOP, and RESET. Protocol number two uses START, STOP, and CUE. The CUE switch issues the computer a RESET, FORWARD, FORWARD, automatically. For ease in operation we recommend using protocol number two. The selection of the protocols is made in the systems definition file contained in the System 4 program. To make a change in the system definition file see the next section which covers reading and changing the file.

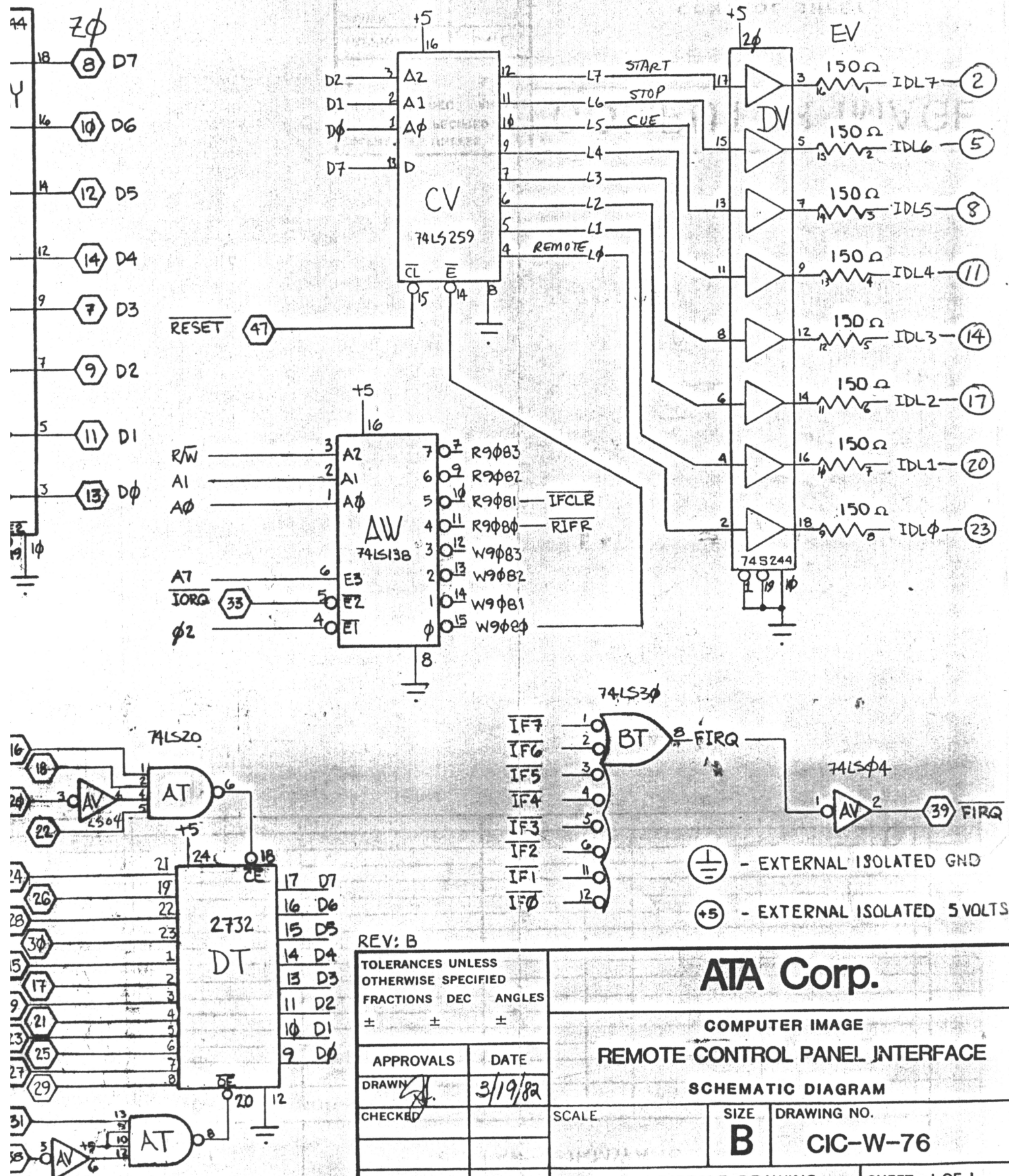
The remote card is capable of driving LEDS with a maximum supplied current of 15ma. The current limiting resistors for the LEDS are on the remote card. All switch inputs are opto-coupled for isolation. The switch inputs (the opto-coupler inputs) are floating HIGH and need to be grounded to trigger the input. Either the leading or trailing edge of the input signal can be used to indicate a key closure. The DIP switch is used for selection, refer to TABLE 2 for more information. FIG 1 shows a flowchart of the PLAYBACK mode, showing which keys may be pressed in each state. Refer to the sections on PLAYBACK and REMOTE in the SOFTWARE OPERATIONS MANUAL for information on operation in the REMOTE mode.

TABLE 1  
REMOTE CONNECTOR PIN-OUT

| PIN # | ELECTRICAL FUNCTION |                          | SOFTWARE FUNCTION               |
|-------|---------------------|--------------------------|---------------------------------|
| 1     | SW7                 |                          | .START (protocol number 2 only) |
| 2     | IDL7                | LED anode                | UNDEFINED                       |
| 3     | GND                 | SW7 common, IDL7 cathode |                                 |
|       | SW6                 |                          | .STOP (protocol number 2 only)  |
| 5     | IDL6                | LED anode                | UNDEFINED                       |
| 6     | GND                 | SW6 common, IDL6 cathode |                                 |
| 7     | SW5                 |                          | .CUE (protocol number 2 only)   |
| 8     | IDL5                | LED anode                | CUE indicator                   |
| 9     | GND                 | SW5 common, IDL5 cathode |                                 |
| 10    | SW4                 |                          | .RESET                          |
| 11    | IDL4                | LED anode                | RESET indicator                 |
| 12    | GND                 | SW4 common, IDL4 cathode |                                 |
| 13    | SW3                 |                          | .FORWARD                        |
| 14    | IDL3                | LED anode                | FORWARD indicator               |
| 15    | GND                 | SW3 common, IDL3 cathode |                                 |
| 16    | SW2                 |                          | .STOP                           |
| 17    | IDL2                | LED anode                | STOP indicator                  |
| 18    | GND                 | SW2 common, IDL2 cathode |                                 |
| 19    | SW1                 |                          | START                           |
| 20    | IDL1                | LED anode                | UNDEFINED                       |
| 21    | GND                 | SW1 common, IDL1 cathode |                                 |
| 22    | SW0                 |                          | START                           |
| 23    | IDL0                | LED anode                | REMOTE CONTROL INDICATOR        |
| 24    | GND                 | SW0 common, IDL0 cathode |                                 |
| 25    | N.C.                |                          |                                 |



| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| LTR       | DESCRIPTION | DATE | APPROVED |
|           |             |      |          |



REV: B

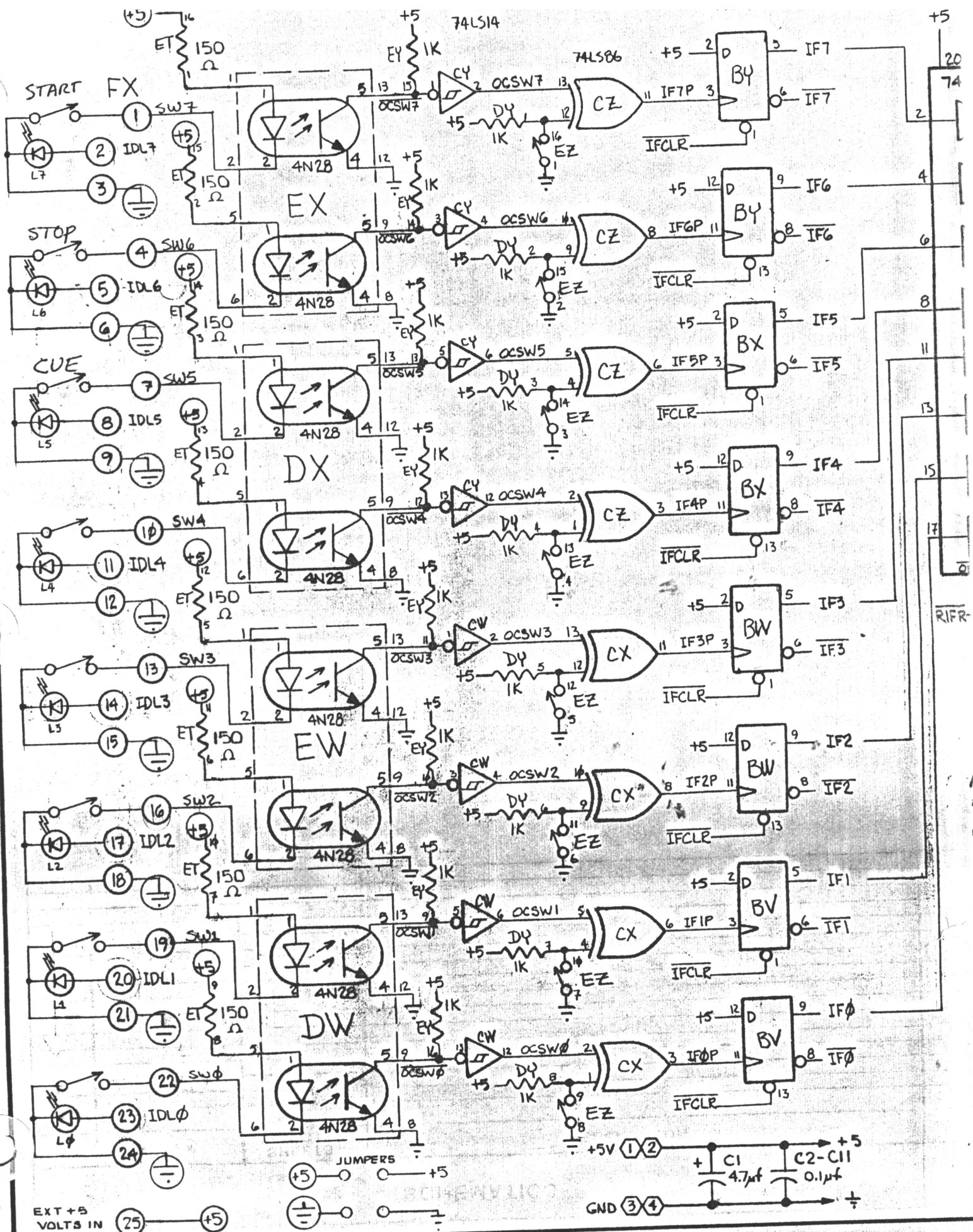
| TOLERANCES UNLESS OTHERWISE SPECIFIED |         |        |
|---------------------------------------|---------|--------|
| FRACTIONS                             | DEC     | ANGLES |
| ±                                     | ±       | ±      |
| APPROVALS                             | DATE    |        |
| DRAWN                                 | 3/19/82 |        |
| CHECKED                               |         |        |
|                                       |         |        |
|                                       |         |        |

**ATA Corp.**

COMPUTER IMAGE  
REMOTE CONTROL PANEL INTERFACE  
SCHEMATIC DIAGRAM

| SCALE                | SIZE | DRAWING NO.  |
|----------------------|------|--------------|
|                      | B    | CIC-W-76     |
| DO NOT SCALE DRAWING |      | SHEET 1 OF 1 |







DIR DPO  
MESSAGE CLEARING DIRECTORY DPO  
CLEAR/A/V/D  
CLEAR/V CLI.ER  
CLEAR/V CLI.OL  
CLEAR/V CLI.SV

H1.MC

DIR DPOF  
MESSAGE CLEARING DIRECTORY DPOF  
CLEAR/A/V/D  
CLEAR/V CLI.ER  
CLEAR/V CLI.OL  
CLEAR/V CLI.SV

DIR DPOF:SCI  
MESSAGE CLEARING DIRECTORY SCI  
CLEAR/A/V/D

DIR DPOF:FSCI  
MESSAGE CLEARING DIRECTORY FSCI  
CLEAR/A/V/D

DIR DPOF:LIBRARIES  
MESSAGE CLEARING DIRECTORY LIBRARIES  
CLEAR/A/V/D



DIR DPOF:UTILITIES  
MESSAGE CLEARING DIRECTORY UTILITIES  
CLEAR/A/V/D

DIR DPOF:SYS4S  
MESSAGE CLEARING DIRECTORY SYS4S  
CLEAR/A/V/D

DIR DPOF:WAVEFORM  
MESSAGE CLEARING DIRECTORY WAVEFORM  
CLEAR/A/V/D

DIR DPOF:MICROCODE  
MESSAGE CLEARING DIRECTORY MICROCODE  
CLEAR/A/V/D  
DPLOADCS  
RELEASE MICROCODE

DIR DPOF  
SMEM 30 - BG  
GMEM  
EXFG/E CLI  
TYPE DPO:PACKID.TX  
MESSAGE "MASTER DIRECTORY IS" %MDIR%  
MESSAGE "SYSTEM IS" %GSYS%  
MESSAGE "DISKUSAGE FOR DPOF IS"  
DISK

SYSTEM 9  
WORKS!



REV SYSTEM4.SV  
MESSAGE  
MESSAGE DISKUSAGE FOR DEVICE %GDIR% IS  
DISK  
MESSAGE  
TYPE DPO:PACKID.TX  
INIT DPOF:SYS4S  
INIT DPOF:WAVEFORM  
DELETE <S4CS S4SN>.- S4CS.<GT QT ST SD>/N SCRATCH FILES  
RFDIAG

SYSTEM4.MC

FSYS TERMINAL  
HI  
SYSTEM4.CONSOLE

FDUM DPOF:

LIST SYSTEM4. -

DIR SYS4S

THEN  
LIST

SYS4.OL 388,608  
.SV 65,536

Boots BG

Rms FG

G MEM TELL HOW MUCH MEMORY BG 235 FG

2 DB 25 CONNECTORS

2 serial connectors on DG -

BKG FG  
S MEM 235 0  
WORDS

MISSING DG 100  
BLUE TERMINAL



MESSAGE/P !!!!! CAUTION -- YOU MUST EXIT SYSTEM4 BEFORE CONTINUING !!!!!  
MESSAGE  
CLEAR/A/D/V

RECOVER.MC

DELETE/V CRASH.AD  
DELETE/V CRASH.AK  
DELETE/V CRASH.AP  
DELETE/V CRASH.AQ  
DELETE/V CRASH.AR  
DELETE/V CRASH.BD  
DELETE/V CRASH.BK  
DELETE/V CRASH.BP  
DELETE/V CRASH.BQ  
DELETE/V CRASH.BR  
DELETE/V CRASH.CD  
DELETE/V CRASH.CK  
DELETE/V CRASH.CP  
DELETE/V CRASH.CQ  
DELETE/V CRASH.CR  
DELETE/V CRASH.DD  
DELETE/V CRASH.DK  
DELETE/V CRASH.DP  
DELETE/V CRASH.DQ  
DELETE/V CRASH.DR  
DELETE/V CRASH.ED  
DELETE/V CRASH.EK  
DELETE/V CRASH.EP  
DELETE/V CRASH.EQ  
DELETE/V CRASH.ER  
DELETE/V CRASH.FD  
DELETE/V CRASH.FK  
DELETE/V CRASH.FP  
DELETE/V CRASH.FQ  
DELETE/V CRASH.FR  
DELETE/V CRASH.GD  
DELETE/V CRASH.GK  
DELETE/V CRASH.GP  
DELETE/V CRASH.GQ  
DELETE/V CRASH.GR  
DELETE/V CRASH.HD  
DELETE/V CRASH.HK  
DELETE/V CRASH.HP  
DELETE/V CRASH.HQ  
DELETE/V CRASH.HR  
DELETE/V CRASH.ID  
DELETE/V CRASH.IK  
DELETE/V CRASH.IP  
DELETE/V CRASH.IQ  
DELETE/V CRASH.IR  
DELETE/V CRASH.JD  
DELETE/V CRASH.JK  
DELETE/V CRASH.JP  
DELETE/V CRASH.JQ  
DELETE/V CRASH.JR  
DELETE/V CRASH.HT  
DELETE/V CRASH.IT  
DELETE/V CRASH.JT  
DELETE/V CRASH.AT  
DELETE/V CRASH.ZT  
DELETE/V CRASH.BT  
DELETE/V CRASH.CT  
DELETE/V CRASH.DT  
DELETE/V CRASH.ET  
DELETE/V CRASH.FT  
DELETE/V CRASH.NT



RENAME S4CS.AD CRASH.AD  
RENAME S4CS.AK CRASH.AK  
RENAME S4CS.AP CRASH.AP  
RENAME S4CS.AQ CRASH.AQ  
RENAME S4CS.AR CRASH.AR  
RENAME S4CS.BD CRASH.BD  
RENAME S4CS.BK CRASH.BK  
RENAME S4CS.BP CRASH.BP  
RENAME S4CS.BQ CRASH.BQ  
RENAME S4CS.BR CRASH.BR  
RENAME S4CS.CD CRASH.CD  
RENAME S4CS.CK CRASH.CK  
RENAME S4CS.CP CRASH.CP  
RENAME S4CS.CQ CRASH.CQ  
RENAME S4CS.CR CRASH.CR  
RENAME S4CS.DD CRASH.DD  
RENAME S4CS.DK CRASH.DK  
RENAME S4CS.DP CRASH.DP  
RENAME S4CS.DQ CRASH.DQ  
RENAME S4CS.DR CRASH.DR  
RENAME S4CS.ED CRASH.ED  
RENAME S4CS.EK CRASH.EK  
RENAME S4CS.EP CRASH.EP  
RENAME S4CS.EQ CRASH.EQ  
RENAME S4CS.ER CRASH.ER  
RENAME S4CS.FD CRASH.FD  
RENAME S4CS.FK CRASH.FK  
RENAME S4CS.FP CRASH.FP  
RENAME S4CS.FQ CRASH.FQ  
RENAME S4CS.FR CRASH.FR  
RENAME S4CS.GD CRASH.GD  
RENAME S4CS.GK CRASH.GK  
RENAME S4CS.GP CRASH.GP  
RENAME S4CS.GQ CRASH.GQ  
RENAME S4CS.GR CRASH.GR  
RENAME S4CS.HD CRASH.HD  
RENAME S4CS.HK CRASH.HK  
RENAME S4CS.HP CRASH.HP  
RENAME S4CS.HQ CRASH.HQ  
RENAME S4CS.HR CRASH.HR  
RENAME S4CS.ID CRASH.ID  
RENAME S4CS.IK CRASH.IK  
RENAME S4CS.IP CRASH.IP  
RENAME S4CS.IQ CRASH.IQ  
RENAME S4CS.IR CRASH.IR  
RENAME S4CS.JD CRASH.JD  
RENAME S4CS.JK CRASH.JK  
RENAME S4CS.JP CRASH.JP  
RENAME S4CS.JQ CRASH.JQ  
RENAME S4CS.JR CRASH.JR  
RENAME S4CS.HT CRASH.HT  
RENAME S4CS.IT CRASH.IT  
RENAME S4CS.JT CRASH.JT  
RENAME S4CS.AT CRASH.AT  
RENAME S4CS.ZT CRASH.ZT  
RENAME S4CS.BT CRASH.BT  
RENAME S4CS.CT CRASH.CT  
RENAME S4CS.DT CRASH.DT  
RENAME S4CS.ET CRASH.ET  
RENAME S4CS.FT CRASH.FT  
RENAME S4CS.NT CRASH.NT

LOOK AT END DISK

INITIAL DPO = FORMAT



## PHONE MEMO

|                 |                                     |           |                                     |               |                          |                  |                          |
|-----------------|-------------------------------------|-----------|-------------------------------------|---------------|--------------------------|------------------|--------------------------|
| TO              | RW                                  | DATE      | 2/25                                | TIME          | 958 <sup>00</sup>        | AM<br>PM         |                          |
| FROM            | Jeff Grove                          | AREA CODE |                                     |               |                          |                  |                          |
| OF              | in Denver                           | NO.       | 303 367 1963                        |               |                          |                  |                          |
|                 |                                     | EXT.      |                                     |               |                          |                  |                          |
| MESSAGE         |                                     |           |                                     |               |                          |                  |                          |
|                 |                                     |           |                                     |               |                          |                  |                          |
|                 |                                     |           |                                     |               |                          |                  |                          |
|                 |                                     |           |                                     |               |                          |                  |                          |
|                 |                                     | SIGNED    |                                     |               |                          |                  |                          |
| PHONED          | <input checked="" type="checkbox"/> | CALL BACK | <input checked="" type="checkbox"/> | RETURNED CALL | <input type="checkbox"/> | WANTS TO SEE YOU | <input type="checkbox"/> |
| WILL CALL AGAIN | <input type="checkbox"/>            | WAS IN    | <input type="checkbox"/>            | URGENT        | <input type="checkbox"/> |                  |                          |

## PHONE MEMO

|                 |                                     |                        |                                     |               |                          |                  |                          |
|-----------------|-------------------------------------|------------------------|-------------------------------------|---------------|--------------------------|------------------|--------------------------|
| TO              | RW                                  | DATE                   | 3/1                                 | TIME          | 1040 <sup>00</sup>       | AM<br>PM         |                          |
| FROM            | JEFF GROVE                          | AREA CODE              |                                     |               |                          |                  |                          |
| OF              |                                     | NO.                    | 303 367 1963                        |               |                          |                  |                          |
|                 |                                     | EXT.                   |                                     |               |                          |                  |                          |
| MESSAGE         |                                     | calling about system 4 |                                     |               |                          |                  |                          |
|                 |                                     | WEEK OF 14             |                                     |               |                          |                  |                          |
|                 |                                     |                        |                                     |               |                          |                  |                          |
|                 |                                     | SIGNED                 |                                     |               |                          |                  |                          |
| PHONED          | <input checked="" type="checkbox"/> | CALL BACK              | <input checked="" type="checkbox"/> | RETURNED CALL | <input type="checkbox"/> | WANTS TO SEE YOU | <input type="checkbox"/> |
| WILL CALL AGAIN | <input type="checkbox"/>            | WAS IN                 | <input type="checkbox"/>            | URGENT        | <input type="checkbox"/> |                  |                          |

## PHONE MEMO

|                 |                                     |           |                          |               |                          |                  |                          |
|-----------------|-------------------------------------|-----------|--------------------------|---------------|--------------------------|------------------|--------------------------|
| TO              | RW                                  | DATE      | 3/1                      | TIME          | 1043 <sup>00</sup>       | AM<br>PM         |                          |
| FROM            | → ROB BEKUHS                        | AREA CODE |                          |               |                          |                  |                          |
| OF              |                                     | NO.       | 213 254                  |               |                          |                  |                          |
|                 |                                     | EXT.      | 9791                     |               |                          |                  |                          |
| MESSAGE         |                                     |           |                          |               |                          |                  |                          |
|                 |                                     |           |                          |               |                          |                  |                          |
|                 |                                     |           |                          |               |                          |                  |                          |
|                 |                                     | SIGNED    |                          |               |                          |                  |                          |
| PHONED          | <input checked="" type="checkbox"/> | CALL BACK | <input type="checkbox"/> | RETURNED CALL | <input type="checkbox"/> | WANTS TO SEE YOU | <input type="checkbox"/> |
| WILL CALL AGAIN | <input type="checkbox"/>            | WAS IN    | <input type="checkbox"/> | URGENT        | <input type="checkbox"/> |                  |                          |



INSUFFICIENT MEMORY  
TO EXECUTE PROGRAM:  
SYSTEM4.SV

~~SYSTEM4.SV~~

FIND DWG

CIC-W-143 (AUDIO  
FILTER?)



OLD PROBLEM

STD BUSS - CONTROL  
JEFF GROVE

\$40 per hr. + ACCOM + PLANE FAIR  
WEEK OF MAR 14

FSYS  
HI  
SYSTEM 4

Error  
— chip DT on ECL / RPU com  
Bad  
ZUL chip on "  
ZURP chip on "

PERIPHERAL INTERFACE ADAPTER

ON  
CONSOLE  
CRT

RPU ERROR: 6821-A-DMA ADDR REG

ON TERMINAL

DIRECTORY NOT INITIALIZED

DEVICE ALREADY IN SYSTEM: DPOF.SYS45  
: DPOF: WAVEFORM

NO FILES MATCH SPECIFIER: SYSN. -

RPU ERROR - RPU DIAGNOSIS

IGNORE ERROR  
CONTINUE

.LD\_WFM

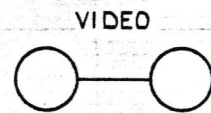


# CABLING VIEW

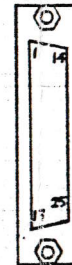
TOP

TOP

CONTROL PANEL ELECTRONICS



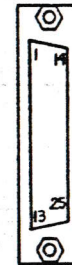
ECLIPSE



RPU



REMOTE



|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| REV SCHEDULE<br>11/16/02 ORIG EVL | COMPUTER IMAGE CORP<br>CONTL PNLELECT REAR PANEL<br>CONNECTOR FUNCTION<br>FCIC -11 SH 1 OF 2 |
|-----------------------------------|----------------------------------------------------------------------------------------------|



FED EX ACCNT # 200-3599-4

AMPEX

COLORADO SPRINGS  
~~BETHESDA~~  
COLORADO SPRINGS  
CUSTOMER SERVICE

596-2000

1-800-227-8402

BETHESDA

530-8800

TECH SUPPORT REDWOOD 1-415-367-3828

LANE GRAHAM AMPEX 1-303-423-1300-233 WEATRIDGE

(HOME) 303 232-2399

LEE HARRISON

1-303-756-2237

EDITEL LA

1-213-931-1821

DAVE SIEG (WORK)

1-818-569-3782

- GLENN HILL

1-303-232-9572

POST GROUP

RICH THORN  
OR BILL VILLAREAL

1-213-462 2300

- JEFF GROVE

(CONSOLE REPAIR)  
WILLING TO COME OUT OR

1-303-367-1963  
COMPUTECH DESIGNS WORK

1-303-458-8053 HOME

BILL ALTEMUS  
VIDEO

1-303-798-5951 HOME =

\* 1-303-799-3000 ENT 3436  
SCIENTIFIC  
ASPEN LABS

→ ANDY DELLÉ

SYSTEMS DESIGNER AT POST GROUP

SENDING BOOKS FOR SCANIMATE



703 444 3539

→ 202-861-0500-8404

~~0-AC NUMBER~~

1028 80 →

BEER

EDITEL 213 931 1821

TERRY CRAIG - 213-827-0394 home

ED KRAMER 713 532-1521 home

LINCOM 713 333-1625 WORK OFFICE  
483-8060 GRAPHICS LAB

~~ED TATKMAN 303-757-1554~~  
TATCHMAN HOUSTON OR DALLAS 214

COMPUTER IMAGE 303-235-0077 DISCONNECTED

LAINE GRAHAM { 303-232-2399 NA  
AMPEX

BOB GULKA } WORKED ON SYSTEM 4

JIM WOLF } WORKED ON RPU + CONSOLE (ATA CORP)

\* LEE HARISON 303-756-2237

u



call Bill Altinas

WORK  
ALTEMUS - CASTLE ROCK  
LIVE IN  
DENVER

FIXED - OBP SYSTEM  
EXE SYSTEM 4  
MICROCODE DIR

REMO - ANIMATION  
WFORMS

LOOK AT NISTA SWITCHER  
3 FULL KERS  
1 UNIKY  
LAYER 5

FSYS

HI  
SYSTEM 4

SYSTEM 4.MC

SYSTEM 4.SV (EXECUTABLE)



|                     |               |                   |                  |
|---------------------|---------------|-------------------|------------------|
| Barrios Technology  |               | (713) - 280-1837  | Houston , Texas  |
| Bellman             | Chuck         | 430-6330          | Sterling , VA    |
| Block               | Rick & Andy   | 303-695-6543      | Aurora , CO      |
| Bradley             | Heidi & John  | 305-552-1746      | Miami , FL       |
| Brown               | Clif & Yvonne | 213-991-3456      | Westlake V, CA.  |
| Carrero             | Nestor        | 305-248-7955      | Homestead , FL   |
| Carter              | Yolanda       | 332-6100 Ext. 215 | Washington, DC   |
| Cohen               | Dr.           | 777-7598          | Leesburg , VA    |
| Collins             | John          | 686-4461          | Washington, DC   |
| Craig               | Terry         | 213-827-0394      |                  |
| Cronin              | Dick          | 667-3583          | Washington, DC   |
| Cruz                | Mary and Wenz |                   | Miami , FL       |
| Donovan             | Gloria        |                   | River Edge, NJ   |
| Dove                | Kevin         | 350-6170          | Mitchellvi, MD   |
| Draluck             | David and Pat | 305-746-6611      | Jupiter , FL     |
| Editel L.A.         | Terry Craig   | 213-931-1821      | Hollywood , CA   |
| Fouch               | David         | 818-506-4769      | Burbank , CA     |
| Frank               | Richard Maryl |                   | Garden Cit, NJ   |
| Furlong             | Jim           | 455-2439          | Springfiel, VA   |
| Gill                | Chris         |                   | Falls Chur, VA   |
| Girten              | Theresa       | 305-443-8785      |                  |
| Harrington          | Randall L., M | 777-1132          | Leesburg , VA    |
| Howe                | Jim Margaret  | 213-322-1578      | El Segundo, CA   |
| Huber               | Debbie & Phil | 304-496-7304      | Augusta , WV     |
| Hurst               | Jane          | 775-4355          | Washington, DC   |
| Iaia                | Domenic       | 604-734-1796      | Vancouver , BC   |
| Interface Video Sys | Suite LL 200  | 202-861-0500      | Washington, DC   |
| Jiuliano            | Joe and Emily | 213-985-7216      | N. Hollywo, CA   |
| Jordan              | Henrietta     | 213-763-2607      | Studio Cit, CA   |
| Kagen               | Abe           |                   | Miami Beac, FL   |
| Kagen               | Jody          |                   | Walden , NY      |
| Kagen               | Ken and Linda |                   | Plainview , NY   |
| Kay                 | Joan & Arthur |                   | N. Bellmor, NY   |
| Kellner             | Art           | 213-378-6683      | Redondo Be, CA   |
| Kellner             | Art and Gail  | 213-306-0523      | Plaza del , CA   |
| King                | Sonny & Sarah | 213-982-9859      | N. Hollywo, CA   |
| King                | Sonny & Sarah | 818-769-5226      |                  |
| Kline               | Henry         | 213-980-1638      | N. Hollywo, CA   |
| Kline               | Henry         | 818-980-1638      |                  |
| Koczera             | Peter and Ang | 818-254-0189-     | Newhall , CA     |
| Koczera             | Peter (work)  | 818-842-1111      | Newhall , CA     |
| Koczera             | Peter (work)  | 818-842-1111      |                  |
| Kramer              | Ed            | 713-532-1521      | Seabrook , Texas |
| Lambert             | Mark          | 342-0418          | Washington, DC   |
| Landahl             | Brad Margaret | 707-762-5812      | Pitaluma , CA    |
| Leyden              | Coby          | 202-364-7820      | Washington, DC   |
| Libby               | Eloise        |                   | Homestead , FL   |
| Libby               | Larry & Wanda | 305-595-0639      | Miami , FL       |
| Lirakis             | Helen & Mike  |                   | Miami , FL       |
| Lirakis             | Nick & Dyanne | 305-223-6409      | Miami , FL       |
| Lusby               | Christine Tom | 213-249-3086      | Montrose , CA    |
| Mahl                | Russ          |                   | 15 Labelia, NS   |
| Mayer               | Bob and Janet | 305-661-8118      | Miami , FL       |
| Mayer               | Paul          | 303-674-8612      | Evergreen , Co.  |

PETE KOCZERA

805



|                     |                |                  |                 |
|---------------------|----------------|------------------|-----------------|
| Mayer               | Richard Paul   | 704-463-1547     | Richfield , NC  |
| McKinnon            | Gary           | 213-934-4267     | Los Angeles, CA |
| Mitchell            | Jim            | 920-0238         | Arlington , VA  |
| Neidenbach          | Tony           | 547-4290         | Washington, DC  |
| Paulson             | Walt & Mary    | 305-232-1394     | Miami , FL      |
| Quick Printmasters  | Larry Mayer    | 305-592-3363     | Miami , FL      |
| Reeder              | Dennis         | 202-675-9100     | Washington, DC  |
| Reeder              | Elise          | 683-3335         | Alexandria, VA  |
| Rochin              | Elizabeth      |                  | DeSoto , TX     |
| Rogers              | Bevrlly & Dick |                  | Marion , SC     |
| Rosenthal           | Richard        | 818-785-3400     | Van Nuys , CA   |
| Russell             | Kathy          | 776-6725         | Laurel , MD     |
| Sieg                | David & Marty  | 818-998-8703     | Chatsworth, CA  |
| Sladovich           | Ruth (home)    |                  | New Orlean, LA  |
| Sladovich           | Ruth (work)    | 504-486-5556     | New Orlean, LA  |
| Spurlock            | Linda & Ralph  |                  | Miami , FL      |
| Statler             | Beverly        | 937-4249         | Beltsville, MD  |
| Swanson             | Jayne Marie    | 262-3521         | Bowie , MD      |
| Turbeville          | Bob            | 301-725-6602     | Laurel , MD     |
| Turbeville          | Janis          | 444-9510         | Sterling , VA   |
| Vertigo Systems Int | Suite #221     | 604-682-0966 EXT | Vancouver , BC  |
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| Weinstock           | Sally and Joe  |                  | Miami , FL      |
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